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tion' is, to say the least, misleading. The word 'consciousness,' on the last page, is out of place in a text-book on zoology, especially when it is still a serious question whether this word should not be rigorously avoided even in works on comparative psychology. The binding, paper and typography are all that can be desired in a small work like that of Professor Dodge. The figures are clear, attractive and abundant. Perhaps there are proportionally too many figures of European and too few of American species, especially among the insects, for a book that will probably be more used in this country than abroad.

WILLIAM MORTON WHEELER.

#### SCIENTIFIC JOURNALS AND ARTICLES.

*The Popular Science Monthly* for December contains a careful discussion of 'Recent Theories in Regard to the Determination of Sex,' by T. H. Morgan, a history of 'The Academy of Science of St. Louis,' by William Trelease, and a description of 'The Tetrahedral Kites of Dr. Alexander Graham Bell,' by Gilbert H. Grosvenor. Dr. J. A. Fleming contributes the seventh and final paper on 'Hertzian Wave Wireless Telegraphy,' in which are presented some of the problems waiting for solution before it can be entirely successful. 'The Salmon and Salmon Streams of Alaska' are described by David Starr Jordan, the article containing an account of the food value of each species. 'The Storm Center in the Balkans,' by Allan McLaughlin, shows how the very mixed population of this region makes it a continual source of political trouble, while in 'The Growth of Rural Population' Frank T. Carlton shows the changes that have recently taken place in that direction. The concluding article, by the late R. H. Thurston, is on 'Rear-Admiral G. W. Melville, U.S.N., and Applied Science in Construction of the New Fleet.'

*Bird-Lore* for November-December contains 'An Island Eden,' by Frank M. Chapman, being an account of Gardiner's Island, N. Y.; 'The Turkey Vulture and Its Young,' by Thomas H. Jackson; the first of a series of articles on 'The Migration of Warblers,' by

W. W. Cooke, and the seventh series of portraits of *Bird-Lore's* Advisory Councilors. There are the usual notes and book reviews and reports of the Audubon Societies. This last includes 'Educational Leaflets,' No. 6, on the passenger or wild pigeon. It is announced that the papers on warblers will be illustrated by colored plates, and the present number contains two. Eventually the series will appear in book form.

*The Journal of Comparative Neurology* has somewhat enlarged its scope, and will hereafter be called *The Journal of Comparative Neurology and Psychology*. Professor C. Judson Herrick, of Denison University, will continue to be the managing editor, and Dr. O. S. Strong, of Columbia University, will continue to be one of the associate editors, while Dr. Robert M. Yerkes, of Harvard University, will become associate editor with special charge of the departments dealing with the functions of the nervous system and comparative psychology. A large board of cooperating editors has also been secured. The subscription price will hereafter be \$4, and the journal will hereafter appear bi-monthly, each volume containing about 500 pages.

PROFESSOR GIULIO FANO, of Florence, has decided to found a new periodical, to be entitled *Archivio di Fisiologia*. He will be assisted in the editorship by Professor Filippo Bottazzi, of Genoa. The *Archivio di Fisiologia* will especially concern itself with experimental work, but synthetic reviews and philosophical disquisitions will not be excluded. Papers will be published, according to the wish of the author, in one of the four official languages of the International Physiological Congress—English, Italian, German or French. The *Archivio di Fisiologia* will appear every two months, forming a yearly volume of about 500 pages.

*The Museums Journal* of Great Britain for November has papers on 'Copyright of Works of Art in the Museums of Great Britain,' by E. Ernest Lowe, which shows a very curious state of affairs; 'Early Monuments and Archaic Art of the Northeast of Scotland,' by W. M. Ramsay, and on 'Good Form in Nat-

ural History Museums,' by F. Jeffrey Bell. There are an interesting report of the meeting of the library association and many notes from various museums.

#### SOCIETIES AND ACADEMIES.

##### THE CONVOCATION WEEK MEETINGS OF SCIENTIFIC SOCIETIES.

THE American Association for the Advancement of Science, the American Society of Naturalists and the following affiliated societies will meet at St. Louis, Mo., during the week beginning December 28.

*The American Association for the Advancement of Science.* The week beginning on December 28, 1903. President, The Hon. Carroll D. Wright; Permanent Secretary, Dr. L. O. Howard, Cosmos Club, Washington, D. C.; General Secretary, Dr. Chas. W. Stiles, U. S. Department of Agriculture, Washington, D. C.; Secretary of the Council, President Chas. S. Howe, Case School of Applied Science, Cleveland, Ohio. *Local Executive Committee,* President, Professor William Trelease; Secretary, Alexander S. Langsdorf.

*Section A—Mathematics and Astronomy.* Vice-president, O. H. Tittmann; Secretary, Professor L. G. Weld, University of Iowa, Iowa City, Ia.

*Section B—Physics.* Vice-president, Professor Edwin H. Hall; Secretary, Professor D. C. Miller, Case School of Applied Science, Cleveland, Ohio.

*Section C—Chemistry.* Vice-president, Professor W. D. Bancroft; Secretary, Professor A. H. Gill, Massachusetts Institute of Technology, Boston, Mass.

*Section D—Mechanical Science and Engineering.* Vice-president, Professor C. M. Woodward; Secretary, Professor Wm. T. Magruder, Ohio State University.

*Section E—Geology and Geography.* Vice-president, Professor I. C. Russell; Secretary, Dr. G. B. Shattuck, The Johns Hopkins University, Baltimore, Md.

*Section F—Zoology.* Vice-president, Professor E. L. Mark; Secretary, Professor C. Judson Herick, Denison University, Granville, Ohio.

*Section G—Botany.* Vice-president, Professor T. H. MacBride; Secretary, Professor F. E. Lloyd, Teachers College, Columbia University, New York City.

*Section H—Anthropology.* Vice-president, Professor M. H. Saville; Secretary, Dr. R. B. Dixon, Harvard University, Cambridge, Mass.

*Section I—Social and Economic Science.* Vice-president, Judge S. E. Baldwin; Secretary, J. E.

Crowell, U. S. Department of Agriculture, Washington, D. C.

*Section K—Physiology and Experimental Medicine.* President, Professor H. P. Bowditch; Secretary, Professor F. S. Lee, Columbia University, New York. There will be no meeting of Section K at the St. Louis meeting.

*The American Society of Naturalists.* December 29 and 30. President, Professor William Trelease; Secretary, Dr. Ross G. Harrison, The Johns Hopkins University, Baltimore, Md. *The Central Branch* of the society meets at the same time and place. President, Professor John M. Coulter; Secretary, Professor W. J. Moenkhaus, Indiana University, Bloomington, Ind.

*The Astronomical and Astrophysical Society of America.* December 29, 30. President, Professor Simon Newcomb; Secretary, Professor Geo. C. Comstock, Washburn Observatory, Madison, Wis.

*American Physical Society.* During convocation week. President, Arthur G. Webster; Secretary, Professor Ernest Merritt, Cornell University, Ithaca, N. Y.

*The American Chemical Society.* December 28, 29. President, Professor John H. Long; Secretary, Professor W. A. Noyes, The Johns Hopkins University, Baltimore, Md.

*The Geological Society of America.* December 30, 31, 1903, January 1, 1904. President, Dr. S. F. Emmons; Secretary, Professor H. L. Fairchild, University of Rochester, Rochester, N. Y. *Cordilleran Section.* San Francisco. January 1, 2, 1904.

*The American Mathematical Society—Chicago Section.* Secretary, Professor Thomas F. Holgate, Northwestern University, Evanston, Ill. *San Francisco Section.* Berkeley, Cal. December 19. Secretary, Professor G. A. Miller, Stanford University, Cal.

*Botanical Society of America.* December 30, 31. President, B. T. Galloway; Secretary D. T. MacDougall, New York Botanical Garden, Bronx Park, N. Y.

*The Central Botanists' Association.* President, Conway MacMillan; Secretary, C. F. Millsbaugh, Field Columbian Museum, Chicago, Ill.

*The Botanical Club of the Association.* Probably, at convenient times.

*The Society for Horticultural Science.* December 28, 29. President, Professor L. H. Bailey; Secretary, S. A. Beach, Geneva, N. Y.

*The Fern Chapter.* Time to be announced. President, B. D. Gilbert; Secretary, H. D. House, Botanical Garden, Bronx Park, New York, N. Y.

*The Society for the Promotion of Agricultural*